

Comparisons of Job Characteristics

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)

Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 74

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)

Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Building and Construction	4.0	16.9	4.9	<<	Extensive education and/or training may be required
Mechanical	6.8	13.9	9.5	<<	Extensive education and/or training may be required
Administration and Management	8.4	12.8	5.4	<<	Extensive education and/or training may be required
Mathematics	9.2	12.8	6.4	<<	Extensive education and/or training may be required
Design	5.2	10.9	6.0	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	10.6	6.4	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	10.2	4.0	<<	Extensive education and/or training may be required
Personnel and Human Resources	5.6	8.6	2.1	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 55

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)

Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Coordination	9.1	12.2	6.5	<<	Extensive development of skills in this area may be required

Management of Personnel Resources	6.9	11.6	3.8	<<	Extensive development of skills in this area may be required
Time Management	8.9	11.2	6.3	<<	Extensive development of skills in this area may be required
Persuasion	7.4	9.6	4.4	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.9	5.4	<	A higher skill level may be required
Management of Material Resources	3.7	5.6	2.4	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 75			
Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121) Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	13.4	9.6	<<	Extensive improvement in abilities may be required
Oral Expression	12.4	13.3	9.7	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	12.1	8.3	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	11.2	7.5	<<	Extensive improvement in abilities may be required
Near Vision	11.1	11.0	11.2	0	Current ability level may be sufficient
Written Comprehension	11.0	10.7	7.3	<<	Extensive improvement in abilities may be required
Written Expression	9.8	10.6	6.2	<<	Extensive improvement in abilities may be required
Inductive Reasoning	10.2	10.4	7.4	<<	Extensive improvement in abilities may be required
Visualization	7.5	9.8	8.6	<	Some improvement in abilities may be required
Number Facility	6.3	8.2	3.7	<<	Extensive improvement in abilities may be required
Time Sharing	6.6	7.9	5.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 55
Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121) Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)		

Work Activities	Exclusivity of Activity
Estimate materials or labor requirements	61
Monitor worker performance	57
Plan or organize work	51
Read blueprints	10
Read specifications	23
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 77

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)
Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Cleaning equipment	11
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Electrical measuring and testing equipment	7
Face and head protection	7
Forming tools	2
Heating equipment and parts and accessories	19
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Marking tools	11
Measuring and layout tools	3
Metal bending and forming machinery	17
Passenger motor vehicles	13
Personal communication devices	2
Power tools	2

Prying and bending tools	10
Respiratory protection	6
Rough and finishing tools	5
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.